**HW#7H\_Pt2:** Linear equations

**Honors Geometry Pd. 3**

Due: Wednesday September 17th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **1) Write an equation of the line with the given slope and *y*-intercept in SLOPE- INT form.**  a. slope: 3; *y*-intercept: 8 b. slope: 11; *y*-intercept: 2 c. slope: –4; *y*-intercept: 5 | |
| 2) Write out a situation to match the following graph (make sure to specifically describe the slope):  Distance  From  Home  Hours | 3) Describe the situation in words:  Population  Of  Smallsville    2000 2005 2010 (Years) |
| **4) Write an equation of the line shown.**  a. b. c.  Y-intercept: \_\_\_\_\_\_ Y-intercept: \_\_\_\_\_\_ Y-intercept: \_\_\_\_\_\_  Slope: \_\_\_\_\_\_ Slope: \_\_\_\_\_\_ Slope: \_\_\_\_\_\_  Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_ | |

5a. b. c.

Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_ Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_ Slope-intercept form: \_\_\_\_\_\_\_\_\_

Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_ Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_ Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_ Standard form: \_\_\_\_\_\_\_\_\_\_\_\_ Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Manipulate the following equations into all three forms <slope-intercept, point slope, and standard> and graph.**



6) 4x + 3y = 9

Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_

Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_



7) 4y = 8 – 5x

Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_

Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_



8) -2 – x + y = 0

Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_

Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_



9) y = -0.5x – 3

Slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_

Point-slope form: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form: \_\_\_\_\_\_\_\_\_\_\_\_\_